

Leu Ser Pro Pro Arg Asn Asn Val Ser Val Glu Thr Thr Val Thr Val
115 120 125

Ser	Gln	Pro	Ser	Gln	Glu	Ile	Val	Pro	Glu	Thr	Ser	Asn	Lys	Pro	Glu
130							135					140			
Gly	Gly	Arg	Met	Cys	Glu	Leu	Met	Cys	Ser	Lys	Gly	Leu	Arg	Lys	Tyr
145					150					155					160
Ile	Tyr	Ala	Asn	Ile	Ser	Asp	Gln	Ala	Lys	Leu	Met	Glu	Glu	Ile	Pro
			165						170					175	
Ser	Ala	Leu	Lys	Leu	Ala	Lys	Glu	Pro	Ala	Lys	Phe	Val	Leu	Asp	Cys
			180					185					190		
Ile	Gly	Lys	Phe	Tyr	Leu	Gln	Gly	Arg	Arg	Ala	Phe	Thr	Lys	Glu	Ser
		195					200					205			
Pro	Met	Ser	Ser	Ala	Arg	Gln	Val	Ser	Leu	Leu	Ile	Leu	Glu	Ser	Phe
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225					230					235					240
Ile	Lys	Asp	Glu	Ala	Glu	Thr	Ala	Ala	Val	Ala	Trp	Arg	Lys	Arg	Leu
				245					250					255	
Met	Thr	Glu	Gly	Gly	Leu	Ala	Ala	Ala	Glu	Lys	Met	Asp	Ala	Arg	Gly
			260					265					270		
Leu	Leu	Leu	Leu	Val	Ala	Cys	Phe	Gly	Val	Pro	Ser	Asn	Phe	Arg	Ser
		275					280					285			
Thr	Asp	Leu	Leu	Asp	Leu	Ile	Arg	Met	Ser	Gly	Ser	Asn	Glu	Ile	Ala
	290					295					300				
Gly	Ala	Leu	Lys	Arg	Ser	Gln	Phe	Leu	Val	Pro	Met	Val	Ser	Gly	Ile
305					310					315					320
Val	Glu	Ser	Ser	Ile	Lys	Arg	Gly	Met	His	Ile	Glu	Ala	Leu	Glu	Met
				325					330					335	
Val	Tyr	Thr	Phe	Gly	Met	Glu	Asp	Lys	Phe	Ser	Ala	Ala	Leu	Val	Leu
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Lys	Ala	Gln	Ser	Pro	Leu	Ala	Phe	Lys	Glu	Ala	Ala	Thr	Lys	Gln	Leu
	370					375					380				
Ala	Val	Leu	Ser	Ser	Val	Met	Gln	Cys	Met	Glu	Thr	His	Lys	Leu	Asp
385					390					395					400
Pro	Ala	Lys	Glu	Leu	Pro	Gly	Trp	Gln	Ile	Lys	Glu	Gln	Ile	Val	Ser
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<210> 3
 <211> 2257
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: likely cDNA
 sequence of the H51 FRI gene

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 aaagtgcgta gattcaatta tttggcatag actcaaaaga gtgtatatat atctgacttt 120
 tattaataaata ttaaacacaa atacatattt tcataagcaa aactataaaa gccctaaaca 180
 tataatgatt acctcaaagg aaaaagtcgt tttctcctac ttaaaagata gggtacttcc 240
 taattaatat ataatttatg tgaacttcac aatatacagt tcaataaaaat ttggtaattt 300
 gaccgattta aggagagtgg aaatttagggc ttctgcaatc ttttttcttc gccgcaatct 360
 catgtccaat tatccaccga cgggtggcggc gcaaccacaca acgacggcga atccactgct 420
 gcagcgacat caatctgaac agcgacgaag agaattaccg aagattgtcg aaacagagtc 480
 tacaagtatg gacattacga tcggtcaatc taagcagcct caatttttga aatccataga 540
 cgaattagct gcgttttctag ttgcagtggga aacattcaaa cgccaattcg atgatcttca 600
 gaagcacatc gagtcaatcg aaaacgcaat tgattccaaa ctcgagagta acggcgttgt 660
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 gaataaaccg gagggggggac gtatgtgtga gttgatgtgt agcaaagggtc tgcgtaaata 840
 catatacgcg aatatctctg atcaagctaa gttaatggaa gagattcctt cagctttgaa 900
 attggccaag gagccagcga agtttgattt ggattgtatt ggcaagtttt acttacaagg 960
 gcgtagagca tttactaaaag agtcgcctat gagctctgcg agacaagttt cgcttcttat 1020
 actggagctc tttcttctaa tgctgatcg ttgtaaaagg aaggtgaaga ttgagagttg 1080
 gattaaagat gaggcggaga cggctgctgt tgcttgaggg aaaagggttg tgactgaagg 1140
 aggattagct gcggctgaga aaatggatgc aaggggtttg cttttactag ttgcttggtt 1200
 tggtgttcct tcaaaacttta ggagtacaga tttgctggat ttgataagga tgagtgggtc 1260
 gaatgagatt gccggtgctt tgaagcggtc acagtttctt gtccctatgg tctcaggtat 1320
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 tagtcaaaga gacgatgacc aagatgaaat atcagctctt gtgagtagtt acctcgccc 1860
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 tggtgggtta ggaagaagtg tatatgcata tgaacatctg gcccacaaat catactctcc 1980
 aggtcacgga catagacttc atcgacagta ctctccgtct ttggttcacg gacagagaca 2040
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 gggttacaga cattcaccat ctgaagaaag atatttgggt ttatccaatc aaaggtctcc 2160
 tcgcagtaac tcatcattag accccaaata ggaggaatgt aaatttgtaa caaagctttt 2220
 tgtttttgct taagtttagtc atttatttaa ctcccaa 2257

<210> 4
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 4
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23

<210> 5
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 5
 tcgcagataa ggagactaac ca

22

<210> 6
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 6
 gagttccgcg accctttac

19

<210> 7
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 7
 tagtttccgt tgatatgtga ttt

23

<210> 8
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequenc : Primer

<400> 8
taagaagccg aaaacaaaag gat 23

<210> 9
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 9
agggtaaaaa ctgcagatga aaat 24

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 10
cggggtcagg taatagcaca c 21

<210> 11
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 11
ggttttcgga tttcggattt ta 22

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 12
aattcaaccg catcgatatca g 21

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<210> 13
<211> 22
<212> DNA
<213> Artificial Sequence
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<220>

<223> Description of Artificial Sequence: Primer

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<400> 13
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22

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<210> 14
<211> 24
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<220>

<223> Description of Artificial Sequence: Primer

<400> 14
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24

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<210> 15
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<220>

<223> Description of Artificial Sequence: Primer

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gatgggtcgg tgggtgaac

19

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<210> 16
<211> 20
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<220>

<223> Description of Artificial Sequence: Primer

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<400> 16
accgcagaag cagcattagc
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20

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<210> 17
<211> 18
<212> DNA
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<220>

<223> Description of Artificial Sequence: Primer

<400> 17
 ctccgcgcag gtgatttg 18

<210> 18
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 18
 ctcccgcacag tttctttgac g 21

<210> 19
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 19
 cctgttcctg gcggtgtag 19

<210> 20
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 20
 agtactcaca agtcacaac 19

<210> 21
 <211> 19
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 21
 gggattatcg tgtttgaag 19

<220>

<400> 22

19

<211> 19

<213> Artificial Sequence

<220>

<400> 23

19

<211> 19

<213> Artificial Sequence

<220>

<400> 24

19

<211> 21

<213> Artificial Sequence

<220>

<400> 25

21

<211> 21

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 26
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<210> 27
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 27
 ctaaacaatat aacgattacc 20

<210> 28
 <211> 20
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 28
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<210> 29
 <211> 20
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 29
 cgttttctcc taattaaaag 20

<210> 30
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 30
 cttcacaata tacagttca 19

<400> 35
gaagatcatc gaattggc 18

<210> 36
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 36
ggtttattcg acgtctcc 18

<210> 37
<211> 19
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<220>
<223> Description of Artificial Sequence: Primer

<400> 37
gctttgaaat tggccaagg 19

<210> 38
<211> 18
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 38
agactccagt ataagaag 18

<210> 39
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 39
agatttgctg gatttgataa gg 22

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<210> 40
<211> 18
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<213> Artificial Sequence
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<220>

<223> Description of Artificial Sequence: Primer

<400> 40

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18

<210> 41

<211> 19

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

<400> 41

ctcaaatgac tccttgctc

19

<210> 42

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 42

tgcgaaagaa ctaccaggat g

21

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 43

cagctcttgt gagtagttac

20

<210> 44

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 44
attcatactc tccaggtca 19

<210> 45
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 45
aacaacagtt accatatgg 19

<210> 46
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 46
accatatggt aactgttg 18

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 47
ttatccaatc aaaggtctcc 20

<210> 48
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 48
gtcatttatt taactcccaa 20

<210> 49
 <211> 29
 <212> DNA
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<220>

<223> Description of Artificial Sequence: Primer

<400> 49

cgcgattct tgggagttaa ataaatgac

29

<210> 50

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 50

gctcctgtaa ttgacattta ag

22

<210> 51

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 51

cactatctaa atagacctc

19

<210> 52

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 52

tgcggattcc aaccttg

17

<210> 53

<211> 20

<212> DNA

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<220>

<223> Description of Artificial Sequence: Primer

<400> 53
 gattgtcaag ctcaagttgg 20

<210> 54
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 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 54
 caagatcaaa gactgctaaa tc 22

<210> 55
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 55
 gtgagtgtat ctagtggttca 20

<210> 56
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 56
 cagaagcctc cggcgaac 18

<210> 57
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<220>
 <223> Description of Artificial Sequence: Landsberg
 erecta VRN2 cDNA

<400> 57
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 gcattgagtt tatcgctatg acgtagggaa attctaattt aggggaggcc tcagagtttg 180
 cactaacttc ataatcggct cttgacgttg ttgagtgtaa ttgaacaaga atgtgtaggc 240
 agaattgtcg cgcgaaatcc tcaccggagg aagtgatttc aactgatgag aatctcttga 300
 tatattgtaa acctgttcga ctatataaca tctttcacct tcgctctcta ggcaacccat 360
 cgtttcttcc aagatgcttg aactacaaaa ttggagcaaa gcgcaaaaaga aagtcaagat 420

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ctactgggat ggtagttttc aactataagg attgtaataa cacattacag aaaactgaag 480
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aatttcattt gaattcatct catgatttat ttgaatttga gttcaagctt ttcgaagaat 600
accagacagt taatgtttct gtaaaaactta attccttcat atttgaggaa gaaggaagtg 660
atgacgataa atttgagccc ttctctctct gctcgaaacc tcgtaagcgg agacaaagag 720
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<210> 58

<211> 1715

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Columbia VRN2
cDNA

<400> 58

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gatatattgt aaacctgttc gactatataa catctttcac cttcgctctc taggcaaccc 360
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gcaatttcat ttgaattcat ctcatgattt atttgaattt gagttcaagc ttttggaaga 600
ataccagaca gttaatgttt ctgtaaaact taattccttc atatttgagg aagaaggaag 660
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ccagatgctt gatgactttg tggatgtgaa taaagatgaa aagcaattca tgcattctttg 1200
gaactcgttt gtaagaaaac aaagggttat agcagatggg catatctctt gggcatgtga 1260
agtattttca agattttacg agaaagagtt gcaactgttac tcatcactct tctggtgttg 1320
gagattgttt ttgattaaac tatggaacca tggacttgct gactcagcca ccatcaacaa 1380

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cataaaaaac	aagaacaatg	ttgacaacaa	ggacaataac	agcagagaca	agtaattaaa	1560
taggaaacac	tccggtttag	atgataccga	tctatcggat	tgtaacttat	tcttctttct	1620
taaaaaaatt	gtttaggagc	aaacaaagat	tttatttggt	agtgtattca	actgattaca	1680
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